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Headline: 'Zero tolerance' for research misconduct here

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Institutions take steps to safeguard scientific integrity after data falsification scandal

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Research institutions here have reaffirmed their commitment to safeguarding scientific integrity and taken steps to drive home its importance to researchers, in the wake of a data falsification scandal in publicly funded research that rocked three institutions here last week. Ongoing investigations by Nan-

yang Technological Universit (NTU) have already led to the retraction of six academic papers in international journals, the terminatio of principal investigator Rav Kambadur's joint appointments a NTU and the Agency for Scienc Technology and Research (A*Star and the revocation of the Ph degree of co-author Sudarsanarce

Worldwide, scientific fraud is not generally considered a criminal offence and there is no legislation in Singapore that explicitly deals with it, except in the case of ethical misconduct in human biomedical

In total, 23 authors were involved in the six retracted papers. NTU research integrity officer erance towards research misconduct", and requires all researchers to sign a declaration that they will uphold research integrity, and deposit their research records in a central system.

Other major research institutions here have similar policies.

Professor Steven Miller, vice-provost of research at Singapore Management University, said the university has policies to uphold high standards of integrity and to investigate any allegations of research misconduct.

And Professor Martin Dunn, asso ciate provost of research at the Sin gapore University of Technology and Design (SUTD), said the univer sity has a research integrity code (RIC) based on the Singapore State ment on Research Integrity.

participants from 51 countries a the second World Conference or Research Integrity in 2010. He added: "In the light of recen

session with researchers as recently as early July, to highlight the importance of the RIC and raise awareness of these issues. "With regard to research malprac-

zero tolerance, protection of whistle-blowers, and recognition of model behaviour."

DISHONEST ACTS continued on B15



Scandals in the scientific community

The tower of scientific exploration and discovery is periodically shaken by tremors of research misconduct in both academic and industry labs.

Take the example of N Haruko Obokata of top Japnese research organisatic Riken, who lost her PhD la year and whose collaborat committed suicide after di crepancies were found in h data and others were unable reproduce her purported su cess in reprogramming adu cells to function as stem cells Singapore's scientific con

Major research malpractic cases in the past include the of Dr Simon Shorvon, who wa fired from his position as hea of the National Neuroscienc Institute in 2003 for conduct ing tests on Parkinson's disease patients without their in

In 2012, the National University of Singapore uncovered evidence of fraud in 21 papers authored by Dr Alirio Melendez, resulting in at least five re-

Two years later, the university was compelled to review its recruitment process after it emerged that former faculty member Anoop Shankar had faked his credentials.

And earlier this year, 'while investigations on the myostatin scandal were ongoing, it was reported that Nanyang Technological University had retracted 11 papers authored by Dr Noel Chia and his colleagues on the topic of special education, over ethical doubts and lack of primary data to authenticate their research.

Lin Yangchen

When some add dishonesty to the equation

EDOM B12

The research under scrutiny is the latest case concerns myostatin a protein that has been the centro of attention in obesity control anslowing down muscle degeneration ties at least the 1909.

The impact of the falsification on the science and its application

Dr Lee Chung Horn, an endocrinologist (hormone specialist) at Gleneagles Medical Centre, said that no myostatin-linked therapies are currently in use, but added "Still, scientists are held to an ethical code of intellectual honesty."

Although 23 authors were involved in the six retracted papers not all of them may be guilty o wrongdoing. A large-scale scientific study typically has many components and collaborators scientists no interface.

Scientific fraud generally surfaces when a whistle-blower raises the alarm, or when other researchers cannot replicate the results.

A senior scientist who wished t remain anonymous said: "Whe you have thousands of scientist there may be one or two undesirs ble characters who will cheat."

He added that competition and the pressure to produce result might be motivations. "The system can induce people who are too obsessed with key performance indicators (KPIs) to do this fo short-term gains such as funding."

KPIs for scientists often includthe number of papers and the im pact factors of the journals in which they are published, which some scientists have argued are not the bes determinants of the quality of research.

As the latest investigation continues here, questions still remain over who else will be fingered and the implications of the fraud.

Mr Lokireddy, who did his PhD a NTU before moving on to Harvard is still listed on the Harvard Medica School website as a post-doctora

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